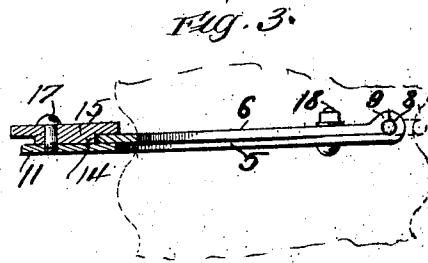
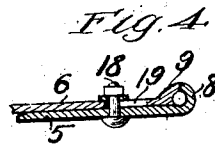
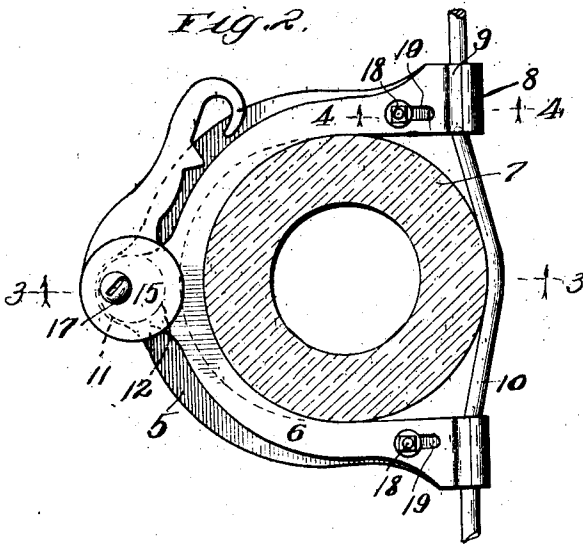
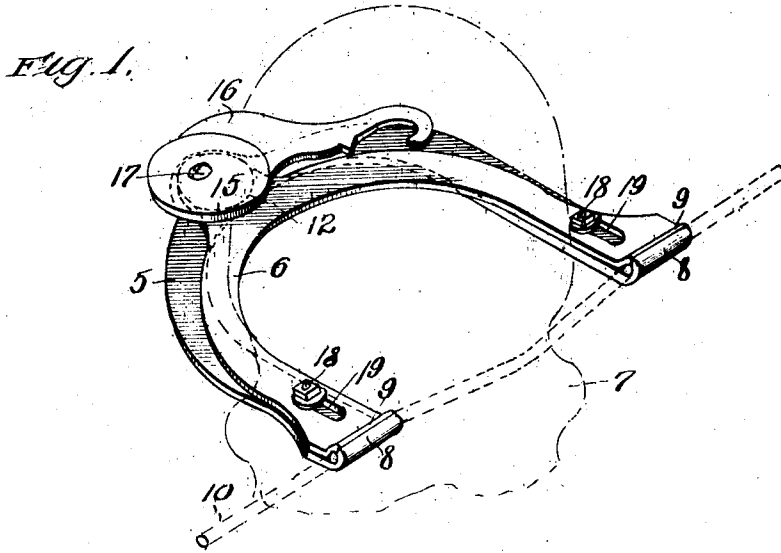


A. M. MORGAN.
 LINE WIRE FASTENER.
 APPLICATION FILED MAY 31, 1912.

Patented May 13, 1913.

1,061,311.



WITNESSES

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ARTHUR M. MORGAN, OF BRIDGEPORT, OHIO.

LINE-WIRE FASTENER.

1,061,311.

Specification of Letters Patent.

Patented May 13, 1913.

Application filed May 31, 1912. Serial No. 700,732.

To all whom it may concern:

Be it known that I, ARTHUR M. MORGAN, a citizen of the United States, and residing at Bridgeport, in the county of Belmont and State of Ohio, have invented certain new and useful Improvements in Line-Wire Fasteners, of which the following is a specification.

This invention relates to certain new and useful improvements in line wire fasteners, and has for its object to provide a new and useful device of this character having simple and efficient means for quickly and securely fastening telegraph, telephone, and similar wires to the ordinary insulator caps carried by the usual supporting pole.

The invention has for its further object to provide a line wire clamp which may be employed with line wires of different diameters, and which when placed in position on the line wire and the insulator cap will securely hold such line wire in engagement with the cap without danger of the wire becoming displaced from such cap.

The invention has for its still further object to provide a device which may be easily and readily placed in position and thereby materially facilitating the fastening of the line wires to the insulator caps.

With the above and other objects in view, as will appear hereinafter as the invention is more fully described and then claimed, the invention consists of the novel construction, combination and arrangement of parts, as shown in the embodiment of the invention illustrated in the accompanying drawings; like reference numerals indicating like parts throughout the different views, in which:—

Figure 1 is a perspective view of a line wire fastener in accordance with my invention, the same being shown in position on an insulator cap, the latter and a part of a line wire being illustrated in dotted lines. Fig. 2 is a plan view of the clamp secured to an insulator cap and line wire, the insulator cap being shown in horizontal section. Fig. 3 is a horizontal sectional view taken on the line 3—3 of Fig. 2, and, Fig. 4 is a longitudinal sectional view taken on the line 4—4 of Fig. 2.

To put my invention into practice, I provide two members, each of which are substantially U-shaped in form, and which members will be herein designated as upper

and lower members respectively, since such members are superposed one upon the other.

The lower member is designated by the reference numeral 5, and the upper member is designated by the reference numeral 6. These members, as stated, are in superposed relation, and both are adapted to span an insulator cap 7, in the manner best shown in Fig. 2 of the drawings. It will of course be understood that said members may be made of different sizes to correspond to the different sizes of insulator caps which are generally employed. At the forward ends of its arms, the lower member 5 is provided with gripping jaws 8, and at the forward end of its arms the upper member 6 is provided with co-acting gripping jaws 9. The jaws 8 are formed by curving upwardly the free ends of the arms of the member 5, and the jaws 9 are formed by an upward and downward curve of the free ends of the arms of member 6. The line wire 10 is received and clamped between said jaws 8 and 9.

At its rear closed end the lower member 5 has an extension 11, while the upper member 6 has a curved seat 12 engaged by an eccentric 14 carried by the pivoted head 15 of a clamping lever 16, said clamping lever 16 being secured to the extension 11 by a pivot 17.

The head 15 being of greater diameter than the eccentric 14 overlies the member 6 at the closed end of the latter, and thus, since the head 15 is pivoted to the extension 11 of the member 5, holds the two members against separation at their closed ends, that is, against other separation than that resulting from the sliding movement of the member 6.

The lower member 5 near the forward ends of its arms carries bolts or pins 18 which extend through slots 19 in the arms of the upper member 6 near the forward ends of such arms. The clamping lever may or may not be constructed with the hook-shaped free end as herein shown. The provision of such end allows for the insertion of a suitable instrument to release the lever in event of the same being difficult to release by a pull of the fingers.

With the lever thrown to the open position, it will be evident that the upper member 6 may recede from its forward position so as to permit the insertion of the line wire 10 into the jaws 8, and upon the clamping

lever 16 being thrown to its closed position, the eccentric or cam 14 acting on the seat 12 closes the jaws 9 firmly against the line wire 10, locking the latter against the insulator 7. Obviously, the jaws may be made to fit the sized wire they are to clamp while the frame is left unchanged. The device may be stamped from sheet metal, thus rendering the same extremely cheap to manufacture. It will require but an instant to place the fastener on the insulator, place the line wire in its position, and close the clamping lever so as to securely lock the line wire to the insulator, thus materially reducing the time now generally required for fastening the line wire to the insulator caps.

While the embodiment herein shown is a practical and preferred form of my construction, it will be obvious that various changes may be made therein without departing from the general spirit of the invention as claimed.

Having fully described my invention, what I claim is:—

25 1. A line wire fastener comprising two superposed substantially U-shaped members, each provided at the free ends of their arms with a clamping jaw, securing pins carried by the lower member and projecting through
30 slots provided therefor in the upper member, a clamping lever pivoted to the lower member and carrying an eccentric, and a seat carried by the upper member against which the eccentric acts in the closing of the
35 jaws.

2. A line wire fastener comprising two superposed flat substantially U-shaped members, one having a sliding engagement on the other, pins on one member working in slots in the other member and holding the
40 members in superposed relation, clamping jaws at the forward ends of the arms of said members, and a clamping lever pivoted to one member and having an eccentric operating on the rear end of the other member
45 to move the slidable member toward the open end of the other member, said eccentric having a head overlying the slidable member at the closed end of the latter to secure the members against separation at their
50 closed ends.

3. A line wire fastener comprising two substantially U-shaped members, each having clamping jaws at the free ends of their arms, a clamping member pivoted to the
55 closed end of the lower member and having a cam acting on the rear end of the upper member to slide the latter toward the open end of the lower member, means at the forward ends of the arms for holding the same
60 in superposed relation, and means carried by the clamping lever to hold the arms in superposed relation at their closed ends.

In testimony whereof I affix my signature in presence of two witnesses.

ARTHUR M. MORGAN.

Witnesses:

J. G. W. SCHAFER,
J. E. Fox.